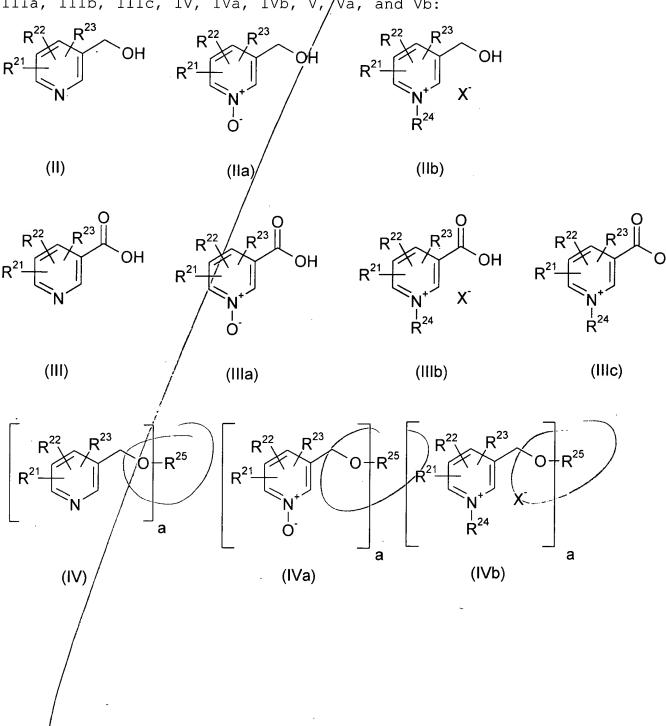
John C

33. (Amended) The method of claim 32 where the compound having vitamin PP activity or a prodrug thereof is selected from the group consisting of compounds of formulae II, IIa, IIb, III, IIIa, IIIb, IIIc, IV, IVa, IVb, V, Va, and Vb:



$$\begin{bmatrix} R^{22} & R^{23} & \\ R^{21} & R^{26} & \\ R^{21} & R^{26} & \\ R^{21} & R^{26} & \\ R^{21} & R^{24} & \\ R^{24} & R^{24} & \\ R^{24} & R^{25} & \\ R^{25} & R^{25} & \\ R^$$

a is an integer of 1 through 6;

b is an integer of 1 through 2;

X is selected from the group consisting of fluoride, chloride, bromide, iodide, hydrogensulfate, mesylate, trifluoromethanesulfonate, tosylate, tetrafluoroborate, dihydrogenphosphate, and adetate;

R²¹ is selected from the group consisting of hydrogen, halogen, cyano, alkyl, trifluoromethyl, hydroxyalkyl, hydroxy, alkoxy, alkanoyloxy, alkylthio, aminoalkyl, amino, alkylamino, dialkylamino, formyl, alkoxycarbonyl, aminocarbonyl, alkylaminocarbonyl, di/alkylaminocarbonyl, and carboxy;

 R^{22} is selected from the group consisting of hydrogen, halogen, alkyl, trif/uoromethyl, hydroxyalkyl, hydroxy, alkoxy, alkanoyloxy, aminoa/kyl, amino, alkoxycarbonyl, aminocarbonyl, and carboxy;

 R^{23} is select d from the group consisting of hydrogen, alkyl, and hydroxyalkyl;

 R^{24} is selected from the group consisting of alkyl, alkenyl, hydroxyalkyl, alkoxyalkyl, and aralkyl;

 R^{25} is such that the alcohol R_{\star}^{25} (OH) a is selected from monovalent linear and branched Ci-10 alkanols and ω-dialkylaminbalkanols, benzyl alcohol, divalent linear and branched C_{2-1} diols, mono- or divalent C_{5-7} cycloalkanols, C_{5-7} cycloalkanediols, C_{5-7} cycloalkanemethanols, saturated C_{5-7}

heterocyclomethanols, tri-, tetra-, penta-/, and hexavalent linear, branched, and cyclic alcohols with 3 to 1/0 carbon atoms, glycerin, 2,2-bis(hydroxymethyl)-1-octahol, erythritol, pentaerythritol, arabitol, xylitol, sorbitol, mannitol, isosorbitol, tetra(hydroxymethyl)cyglohexanol, and inositol;

R²⁶ is selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, dialkylaminoalkyl, and carboxymethyl;

when b is 1, R^{27} is selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, dialkylaminoalkyl, and carpoxymethyl;

when b is 2, R²⁷ is alkylene in which a methylene group is optionally replaced by O, NH, or N-alkyl; and their thioxo analogs, and the acid addition/salts of anionic salts thereof.

(Amended) A pharmaceutical composition comprising: 41.

BG excluded at least one compound selected from the group consisting of compounds of formula I:

$$R^{3(i)}$$
 $R^{2(i)}$
 $R^{1(i)}$
 $R^{1(i)}$

where:

each of $R^{1(i)}$, $R^{2(i)}$, $R^{3(i)}$, and $R^{4(i)}$ are independently selected from the group consisting of halogen, hydroxy, trifluoromethyl, cyano, aliphatic hydrocarbyl residue optionally substituted with one or more functional groups and optionally interrupted by one or more heteroatoms, and aromatic hydrocarbyl residue; or R1(i) and R²⁽ⁱ⁾ together form a bridge;

k is 0 or 1;

 ${
m R}^{23}$ is selected from the group consisting of hydrogen, alkyl, and hydroxyalkyl;

R²⁴ is selected from the group consisting of alkyl, alkenyl, hydroxyalkyl, alkoxyalkyl, and aralkyl;

 R^{25} is such that the alcohol $R^{25}(OH)_a$ is selected from monovalent linear and branched C_{1-10} alkanols and ω -dialkylaminoalkanols, benzyl alcohol, divalent linear and branched C_{2-10} diols, mono- or divalent C_{5-7} cycloalkanols, C_{5-7} cycloalkanediols, C_{5-7} cycloalkanemethanols, saturated C_{5-7} heterocyclomethanols, trip, tetra-, penta-, and hexavalent linear, branched, and cyclic alcohols with 3 to 10 carbon atoms, glycerin, 2,2-bis(hydroxymethyl)-1-octanol, erythritol, pentaerythritol, arabitol, xylitol, sorbitol, mannitol, isosorbitol, tetra(hydroxymethyl)cyclohexanol, and inositol;

R²⁶ is selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, dialkylaminoalkyl, and carboxymethyl;

when b is 1, R²⁷ is selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, dialkylaminoalkyl, and carboxymethyl;

when b is 2, R^{27} is alkylene in which a methylene group is optionally replaced by 0, NH, or N-alkyl; and their thioxo analogs, and the acid addition salts or anionic salts thereof.

34. The method of claim 33 where:

 R^{21} is selected from the group consisting of hydrogen, halogen, cyano, C_{1-6} alkyl, trifluoromethyl, C_{1-6} hydroxyalkyl, hydroxy, C_{1-6} alkoxy, C_{2-7} alkahoyloxy, C_{1-6} alkylthio, C_{1-6} aminoalkyl, amino, C_{1-6} alkylamino, di(C_{1-6} alkyl)amino, formyl, alkoxycarbonyl, aminocarbonyl, (C_{1-6} alkyl)aminocarbonyl, di(C_{1-6} alkyl)aminocarbonyl, and carboxy;

AZ

 R^{22} is selected from the group consisting of hydrogen, halogen, C_{1-6} alkyl, trifluoromethyl, C_{1-6} hydroxyalkyl, hydroxy, alkoxy, C_{2-7} alkanoyloxy, C_{1-6} aminoalkyl, amino, $(C_{1-6}$ alkoxy)-carbonyl, aminocarbonyl, and carboxy;

 R^{23} is selected from the group consisting of hydrogen, C_{1-6} alkyl, and C_{1-6} hydroxyalkyl;

 R^{24} is selected from the group consisting of C_{1-6} alkyl, C_{3-6} alkenyl, C_{2-6} hydroxyalkyl, C_{2-6} alkoxyalkyl, and benzyl; R^{26} is selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, C_{3-6} alkoxyalkyl, C_{1-6} aminoalkyl, C_{4-12} dialkylaminoalkyl, and carboxymethyl;

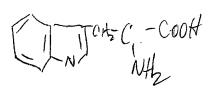
when b is 1, R^{27} is selected from the group consisting of hydrogen, C_{1-6} alkyl, C_{1-6} hydroxyalkyl, C_{3-6} alkoxyalkyl, C_{4-12} dialkylaminoalkyl, and carboxymethyl;

when b is 2, R^{27} is C_{2-10} alkylene in which a methylene group is optionally replaced by O, NH, or N-alkyl.

35. The method of claim 34 where the compound having vitamin PP activity or a prodrug thereof is selected from the group consisting of nicotinic acid, nicotinamide, and their pharmaceutically acceptable ester and amide derivatives, anionic, quaternary, and addition salts, N-oxides, and analogous thioxo derivatives, their isomers, and prodrugs thereof.

36. The method of claim 35 where the compound having vitamin PP activity or a prodrug thereof is selected from the group consisting of nicotinic acid, nicotinamide, and mixtures thereof.

37. The method of claim 35 where the compound having vitamin PP activity or a prodrug thereof is tryptophan.



A

Page 7

38. The method of claim 32 where the cancerostatic or immunosuppressive agent is selected from the group consisting of compounds of formula I:

 $\begin{array}{c|c}
R^{3(i)} & R^{4(i)} \\
R^{2(i)} & N & D^{(i)} \\
R^{1(i)} & N & O
\end{array}$ (I)

where:

each of $R^{1(i)}$, $R^{2(i)}$, $R^{3(i)}$, and $R^{4(i)}$ are independently selected from the group consisting of halogen, hydroxy, trifluoromethyl, cyano, aliphatic hydrocarbyl residue optionally substituted with one or more functional groups and optionally interrupted by one or more heteroatoms, and aromatic hydrocarbyl residue; or $R^{1(i)}$ and $R^{2(i)}$ together form a bridge;

k is 0 or 1;

 $A^{(i)}$ and $D^{(i)}$ are independently a saturated or unsaturated optionally substituted aliphanic hydrocarbyl residue, optionally interrupted by a heteroatom or a functional group;

E is a bond or is a heterocyclic residue having one or two ring nitrogen atoms or one ring nitrogen atom and one ring oxygen atom, linked to $D^{(i)}$ and G through a ring nitrogen atom and a ring carbon atom or through two ring nitrogen atoms; and

G is selected from the group consisting of hydrogen, an aliphatic or araliphatic residue, an unsaturated or aromatic monocyclic or polycyclic carbocyclic residue, a saturated, unsaturated, or aromatic monocyclic or polycyclic heterocyclic residue, bonded directly or through a functional group derived from a carbon, nitrogen, oxygen, sulfur, or phosphorus atom,

and the stereoisomers or racemic or non-racemic mixtures of stereoisomers thereof,

M

Sub C'

and the tautomers thereof when G is a heterocyclic aromatic ring or an aromatic ring substituted by a hydroxy, mercapto, or amino group,

and the pharmacologically acceptable acid addition salts thereof.

John Jah

39. The method of claim 38 where the cancerostatic or immunosuppressive agent is selected from the group consisting of N-[2-(1-benzylpiperidin-4-yl)ethyl]-3-(pyridin-3-yl) propionamide;

N-{2-[1-(2-phenylethyl)piperidin-4-y/]ethyl}-3-(pyridin-3-yl)-propionamide;

N-{2-[1-(4-phenylbutyl)piperidin-4-yl]ethyl}-3-(pyridin-3-yl)-propionamide;

 $N-\{2-[1-(4-hydroxy-4-phenylbuty]) piperidin-4-yl]ethyl\}-$

3-(pyridin-3-yl)propionamide;

 $N-[2-(1-diphenylmethylpiperidin-4-yl}ethyl]-3-(pyridin-3-yl)-propionamide,$

N-[3-(1-diphenylmethylpiperidin-4-yl)propyl]-3-(pyridin-3-yl}propionamide;

N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;

N-[4-(1-benzylpiperid/n-4-yl)butyl]-3-(pyridin-3-yl)acrylamide;

N-{4-[1-(2-phenyleth/l)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

 $N-\{4-[1-(4-bipheny]/ylmethyl)$ piperidin-4-yl]butyl}-

3-(pyridin-3-yl)adrylamide;

N-{4-[1-(1-naphthylmethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

N-{4-[1-(9-anthrylmethyl)piperidin-4-yl]butyl}-3-(pyridin-3-yl)-acrylamide;

 $N-\{4-[1-(cycl/phexylphenylmethyl)piperidin-4-yl]butyl\}-$

3-(pyridin-3/y1) acrylamide;

AZ

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N_{lac{1}{2}} {4-[1-(10,11-dihydro-5H-dibenzo\inta,d]cyclohepten-5-yl)piperidin-
4-yl]butyl}-3-(pyridin-3-yl)acryl/amide;
N-[2-(1-diphenylmethylpiperidin-A-yl)ethyl]-3-(pyridin-3-yl)-
acrylamide;
N-[3-(1-diphenylmethylpiperidi/n-4-yl)propyl]-3-(pyridin-3-yl)-
acrylamide;
N-[5-(1-diphenylmethylpiperiqin-4-yl)pentyl]-3-(pyridin-3-yl)-
acrylamide;
N-[6-(1-diphenylmethylpiper/din-4-yl)hexyl]-3-(pyridin-3-yl)-
acrylamide;
N-[4-(1-diphenylmethylpip \notin ridin-4-yl)butyl]-5-(pyridin-3-yl)-
2,4-pentadienic acid amide;
N-(4-\{1-[bis(4-fluorophe/hyl)methyl]piperidin-4-yl\}butyl\}-
3-(pyridin-3-yl)acrylam/de;
N-(4-\{1-[bis(2-chlorop|nethyl]piperidin-4-yl\}butyl)-
3-(pyridin-3-yl)acrylamide;
N-[4-(1-diphenylmethy]lpiperidin-4-yl)butyl]-3-(2-fluoro-
pyridin-3-yl)acrylam/de;
N-[4-(1-diphenylmet)]ypiperidin-4-yl)butyl]-3-(6-fluoro-1)
pyridin-3-yl)acryla/mide;
N-[4-(1-diphenylme_t^thylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)-
acrylamide;
N-[4-(1-diphenylm/ethylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)-
acrylamide dihydfochloride;
N-[4-(1-dipheny]/methylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)-
acrylamide methanesulfonate;
N-[4-(1-acetyl piperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;
N-[4-(1-benzoy/piperidin-4-yl)butyl]-3-(pyridin-3-yl)-
propionamide;
N-[4-(1-diphenylacetylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)-
propionamide
N-\{4-[1-(9-oko-9H-fluoren-4-carbonyl)piperidin-4-yl]butyl\}-
3-(pyridin-3-yl)propionamide;
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N-[4-(1-methylsulfonylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)-
   N-\{4-[1-(2-naphthylsulfonyl)piperidin-4-yl]butyl\}-
    3-(pyridin-3-yl)propionamide;
    N-[4-(1-benzylpiperidin-4-yl)butyl]-3-(pyridin-3-yl)propionamide;
    N-(4-\{1-[bis(2-chlorophenyl), methyl] piperidin-4-yl\}butyl)-
    3-(pyridin-3-yl)propionamid¢;
N-{4-[1-(phenylpyridin-3-yl/methyl)piperidin-4-yl]butyl}-
    3-(pyridin-3-yl)propionamide;
   \overline{N-\{4-[1-(9H-fluoren-9-yl)piperidin-4-yl]} butyl\}-3-(pyridin-3-yl)-
    propionamide;
    N-\{4-[1-(6,11-dihydrodib]enzo[b,e]oxepin-11-yl)piperidin-4-yl]-
    butyl}-3-(pyridin-3-yl)propionamide;
   N-{4-[1-(1-naphthylaminocarbonyl)piperidin-4-yl]butyl}-
    3-(pyridin-3-yl)propiohamide;
    N-[4-(1-diphenylamino farbonylpiperidin-4-yl)butyl]-3-
     (pyridin-3-yl)propionamide;
    N-\{4-[1-(10,11-dihydrodibenzo[b,f]azepin-5-yl-carbonyl)piperidin-
    4-yl]butyl}-3-(pyridin-3-yl)propionamide;
    N-[4-(1-diphenylphosphinoylpiperidin-4-yl)butyl]-
    3-(pyridin-3-yl)propionamide;
    N-[4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyridin-3-yl)butyl]-3-(2-fluoropyrid
    yl)propionamide;
    yl)propionamide;
    N-[4-(1-diphenyl/methylpiperidin-4-yl)butyl]-2-fluoro-
     3-(pyridin-3-yl)propionamide;
    3-(pyridin-3-yl/) propionamide;
    N-[5-(1-diphen/ylmethylpiperidin-4-yl)pentyl]-3-(pyridin-3-yl)-
    propionamide;
    N-[6-(1-diphehylmethylpiperidin-4-yl)hexyl]-3-(pyridin-3-yl)-
     propionamide;
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N-[2-(1-diphenylmethylpiperi | din-4-yl) ethyl]-5-(pyridin-3-yl)-
pentanoic acid amide;
N-[4-(1-diphenylmethylpiperi/din-4-yl)butyl]-5-(pyridin-3-yl)-
pentanoic acid amide;
N-[4-(1-diphenylmethylpipe / idin-4-yl)butyl]-N-hydroxy-
3-(pyridin-3-yl)propionamipe;
N-[4-(1-diphenylmethylpip \neq ridin-4-yl)butyl]-2-hydroxy-
3-(pyridin-3-yl)propionamide;
N-\{4-(1-diphenylmethylpiperidin-4-yl)butyl]-3-hydroxy-
3-(pyridin-3-yl)propionamide;
N-[4-(1-diphenylmethylp/peridin-4-yl)butyl]-3-(pyridin-3-yl)-
propionamide;
N-[4-(1-methylsulfonylphiperidin-4-yl)butyl]-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[1-(2-naphthylsu/1fonyl)piperidin-4-yl]butyl\}-
3-(pyridin-3-yl)acry: amide;
N-\{4-[1-(2-naphthyls/ulfonyl)piperidin-4-yl]butyl\}-
5-(pyridin-3-yl)-2, #-pentadienic acid amide;
N-\{4-[1-(1-naphthy]/aminocarbonyl) piperidin-4-yl]butyl}-
3-(pyridin-3-yl)actylamide;
N-[4-(1-diphenylam/inocarbonylpiperidin-4-yl)butyl]-
3-(pyridin-3-yl)a¢rylamide;
N-[4-(1-diphenylaminocarbonylpiperidin-4-yl)butyl]-
5-(pyridin-3-yl) \frac{1}{2}, 4-pentadienic acid amide;
N=\{4-[1-(10,11-d]hydrodibenzo[b,f]azepin-5-yl-carbonyl\}
piperidin-4-yl]-butyl}-3-(pyridin-3-yl)-acrylamide;
N-[4-(1-dipheny]phosphinoylpiperidin-4-yl)butyl]-
3-(pyridin-3-yl) acrylamide;
N-[4-(1-acetyl \not q iperidin-4-yl) butyl]-3-(pyridin-3-yl) acrylamide;
N-[4-(1-diphen \slash]lacetylpiperidin-4-yl)-butyl]-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[1-(3,3-diphenylpropionyl)piperidin-4-yl]-butyl\}-
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3-(pyridin-3-y1) acrylamide;

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N-[4-(1-benzoylpiperidin-4-yl)  \muutyl]-3-(pyridin-3-yl) acrylamide;
N-[4-(1-benzoylpiperidin-4-yl) butyl]-5-(pyridin-3-yl)-
2,4-pentadienic acid amide;
N-\{4-[1-(9-oxo-9H-fluoren-4-y]carbonyl)piperidin-4-yl]butyl}-
3-(pyridin-3-yl)acrylamide;
N-\{4-[1-(phenylpyridin-3-yl/nethyl)piperidin-4-yl]-butyl\}-
3-(pyridin-3-yl)acrylamide
N-\{4-[1-(phenylpyridin-4-\sqrt{lmethyl})piperidin-4-yl]-butyl\}-
 3-(pyridin-3-yl)acrylamid/e;
 N-44-[1-(6,11-dihydrodibenzo[b,e]oxepin-11-yl)piperidin-4-yl]-
 butyl}-3-(pyridin-3-yl)&crylamide;
N-{4-[1-(6,11-dihydrodi/benzo[b,e]thiepin-11-yl)piperidin-4-yl]-
 butyl}-3-(pyridin-3-yl∥acrylamide;
N-[7-(1-diphenylmethy/piperidin-4-yl)heptyl]-3-(pyridin-3-yl)-
 acrylamide;
N-[8-(1-diphenylmeth/ylpiperidin-4-yl)octyl]-3-(pyridin-3-yl)-
 ácrylamide;
N-[3-(1-diphenylmethylpiperidin-4-yloxy)propyl]-3-(pyridin-3-yl)-
 acrylamide;
 N-[3-(1-benzylpiperidin-4-yloxy)propyl]-3-(pyridin-3-yl)-
 acrylamide;
 N-[2-(1-dipheny]/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl)ethyl]-5-(pyridin-3-yl)-1-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-2-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-4-yl-3-(1-diphenyl/methylpiperidin-
 2,4-pentadienic/acid amide;
 N-[4-(1-diphen ylmethylpiperidin-4-yl)butyl]-5-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin
 2,4-pentadieni¢ acid amide;
 N-[5-(1-diphe\eta ylmethylpiperidin-4-yl)pentyl]-5-(pyridin-3-yl)-
 2,4-pentadien cacid amide;
 N-[6-(1-diph \neq nylmethylpiperidin-4-yl)hexyl]-5-(pyridin-3-yl)-
 2,4-pentadiehic acid amide;
 N-[4-(4-dippenylmethylpiperazin-1-yl)-3-hydroxybutyl]
 3-(pyridin-\beta-yl)acrylamide;
 N=[3-(4-diphenylmethylpiperazin-1-yl)propoxy]-3-(pyridin-3-yl)-
 acrylamide/;
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N-[4-(4-diphenylmethylpiperazin-1-yl)-4-oxobutyl]-
3-(pyridin-3-yl)acrylamide;
N-[3-(4-diphenylmethylp|iperazin-1-sulfonyl)propyl]-
3-(pyridin-3-yl)acrylamide;
N-\{2-[2-(4-diphenylmethylpiperazin-1-yl)ethoxy]ethyl\}-
3-(pyridin-3-yl)acrylamide;
N-(4-\{4-[bis(4-fluorophenyl)methyl]piperazin-1-yl\}but-2-enyl)-
3-(pyridin-3-yl)acry∜amide;
N-(4-\{4-[(4-carboxyp\enyl)phenylmethyl]piperazin-1-yl\}butyl)-
3-(pyridin-3-yl)acrylamide;
N-(4-\{4-[(4-aminophenyl)phenylmethyl]piperazin-1-yl\}butyl)-
3-(pyridin-3-yl)acylamide;
N-\{4-[4-(9H-fluore/n-9-yl)piperazin-1-yl]butyl\}-
2-(pyridin-3-yloxy) acetamide;
N-\{5-[4-(9H-fluor \notin n-9-yl) piperazin-1-yl] pentyl\}-3-(pyridin-3-yl)-
acrylamide;
N-\{6-[4-(9H-fluo\#en-9-yl)piperazin-1-yl]hexyl\}-3-(pyridin-3-yl)-
acrylamide;
3-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-\{4-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)/-N-[4-(1,2,3,4-tetrahydronaphthalen-1-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(pyridin-3-yl)-1-(
piperazin-1-yl]butyl}acrylamide;
3-(pyridin-3-yl)-N-\{4-[4-(5,6,7,8-tetrahydronaphthalen-1-yl)-1-yl\}
piperazin-1-yl/butyl}acrylamide;
N-\{4-[4-\{naphthalen-1-yl\}] piperazin-1-yl] butyl}-3-(pyridin-3-yl)-
acrylamide;
N-[4-(4-biphe / yl-2-ylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)-
propionamide;
N-[5-(4-biphenyl-2-ylpiperazin-1-yl)pentyl]-3-(pyridin-3-yl)-
 acrylamide;
N-[6-(4-biphenyl-2-ylpiperazin-1-yl)hexyl]-3-(pyridin-3-yl)-
 acrylamide;
N-[4-(4-bip|enyl-2-ylpiperazin-1-yl)butyl]-2-(pyridin-3-yloxy)-
 acetamide;
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N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-5-(pyridin-3-yl)-
2,4-pentadienic acid/amide;
N-\{4-[4-(10,11-dihydko-5H-dibenzo[a,d]cyclohepten-5-yl)-
piperazin-1-yl]buty1/3-3-(pyridin-3-yl)propionamide;
N-\{5-[4-(10,11-dihy aro-5H-dibenzo[a,d]cyclohepten-5-yl)-1\}
piperazin-1-yl]pent/yl}-3-(pyridin-3-yl)acrylamide;
N-\{6-[4-(10,11-dih\psidro-5H-dibenzo[a,d]cyclohepten-5-yl)-
piperazin-1-yl]hex[yl]-3-(pyridin-3-yl)acrylamide;
N-\{4-[4-(10,11-difydro-5H-dibenzo[a,d]cyclohepten-5-yl)-
piperazin-1-yl]butyl}-5-(pyridin-3-yl)-2,4-pentadienic amide;
N-\{4-[4-(6,11-dih/ydrodibenzo[b,e]oxepin-11-yl)piperazin-1-yl]-
butyl-3-(pyridin +3-yl)propionamide;
N-\{2-[4-(6,11-di\hbar ydrodibenzo[b,e]thiepin-11-yl)piperazin-1-yl]-
ethyl}-3-(pyridin-3-yl)acrylamide;
N-[4-(4-dipheny \ acetylpiperazin-1-yl) butyl]-3-(pyridin-3-yl)-
ącrylamide;
N-[4-(4-benzoy|piperazin-1-yl)butyl]-3-(pyridin-3-yl)acrylamide;
N-\{4-[4-(2-aminobenzoyl)piperazin-1-yl]butyl\}-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[4-(4-carboxybenzoyl)piperazin-1-yl]butyl\}-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[4-(biphenyl-2-carbonyl)piperazin-1-yl]butyl\}-
3-(pyridin-3-yl)acrylamide;
N-\{4-[4-(9-oxb-9H-fluoren-4-carbonyl)piperazin-1-yl]butyl\}-
3-(pyridin-3-yl)acrylamide;
N-\{4-[4-(furdn-2-carbonyl)piperazin-1-yl]butyl\}-3-(pyridin-3-yl)-1
acrylamide;
N-\{4-[4-(naphthalen-1-ylaminocarbonyl)piperazin-1-yl]butyl\}-
3-(pyridin-3-yl)propionamide;
N-{4-[4-(diphenylaminocarbonyl)piperazin-1-yl]butyl}-
3-(pyridin-3-yl)acrylamide;
N-{4-[4-(naphthalen-2-sulfonyl)piperazin-1-yl]butyl}-
3-(pyridin-3-yl)acrylamide;
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N-[4-(4-diphenylphosphinonylpiperazin-1-yl)butyl]-
3-(pyridin-3-yl)acrylamide;
N-[4-(4-biphenyl-2-ylpiperazin-1-yl)butyl]-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[4-(9H-fluoren-\beta-yl)piperazin-1-yl]butyl\}-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[4-(10,11-dihy]aro-5H-dibenzo[a,d]cyclohepten-5-yl)piperazin-
1-yl]butyl}-3-(pyridin-3-yl)acrylamide;
N=[4-(4-phenylpipe|ridin-1-yl)-butyl]-3-(pyridin-3-yl)acrylamide;
N-\{4-[4-(1H-indol +3-yl)piperidin-1-yl]butyl\}-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[4-(2-oxo-2/3-dihydrobenzimidazol-1-yl)piperidin-1-yl\}-
butyl-3-(pyridin-3-yl)acrylamide;
N-[4-(4-benzotri/azol-1-ylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[4-(hydrox/ydiphenylmethyl)piperidin-1-yl]butyl\}-
2-(pyridin-3-y∤oxy)acetamide;
N-[4-(4,4-diphenylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)-
acrylamide;
N-\{4-[4-(6,11+dihydrodibenzo[b,e]thiepin-11-yliden]\}
piperidin-1-y\mu]butyl}-3-(pyridin-3-yl)propionamide
dihydrochloride semi-isopropanol;
N-\{4-[4-(6,1]-dihydrodibenzo[b,e]thiepin-11-yliden)-
piperidin-1-1/21 butyl }-5-(pyridin-3-yl)pentanamide;
N-\{4-[4-(4,9]-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)-
piperidin-1+yl]butyl}-3-(pyridin-3-yl)propionamide;
N-\{4-[4-(4,\beta-dihydrothieno[2,3-b]benzo[e]thiepin-4-yliden)-
piperidin-1/-yl]butyl}-3-(pyridin-3-yl)acrylamide;
N=[4-(4-diphenylphosphinoyloxypiperidin-1-yl)butyl]-
3-(pyridin + 3-yl)acrylamide;
N = [4 - (1, 4 - dioxa - 8 - azaspiro[4.5] dec - 8 - y1) buty1] - 3 - (pyridin - 3 - y1) - 3
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acrylamide;

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N-[4-(2,5-dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-
3-(pyridin-3-yl)acry1amide;
N=[4-(2,6-dioxo-4-ph]enylpiperidin-1-yl)butyl]-3-(pyridin-3-yl)-
N=[4-(1,3-\text{diox}o-4,$,6,7-\text{tetraphenyl-1},3-\text{dihydroisoindol-2-yl})-
butyl]-3-(pyridin-3-yl)acrylamide;
N-[4-(3-benzyl-2, 4, 5-trioxoimidazolidin-1-yl)butyl]-
3-(pyridin-3-yl) dcrylamide;
N-[4-(1,3,10-tribxo-1,4,5,6,10,10a-hexahydroacenaphtho[1,8a-c]-
pyrrol-2-yl)but∳l]-3-(pyridin-3-yl)acrylamide;
N-[4-(2,5-dioxo/-4,4-diphenylimidazolidin-1-y1)butyl-
3-(pyridin-3-y¼)acrylamide;
N-[4-(2,5-diox/b-3-phenyl-2,5-dihydropyrrol-1-yl)butyl]-
3-(pyridin-3-⅓1)acrylamide;
N-[3-(2,5-dio ko-3,4-diphenyl-2,5-dihydropyrrol-1-yl)propyl]-
\beta-(pyridin-3\etayl)acrylamide;
N-[4-(3-pyri \not tin-3-ylacryloylamino)butyl]-2,3:5,6-dibenzo-
bicyclo[2.2.2]octan-7,8-dicarboximide;
N-[4-(5-ben/yliden-2,4-dioxothiazolidin-3-yl)butyl]-
3-(pyridin-\( \beta\)-yl)acrylamide;
N-[4-(4-ben/zyl-2,6-dioxopiperazin-1-yl)butyl]-3-(pyridin-3-yl)-
acrylamide;
N-[6-(2,5-\text{dio}xo-3,4-\text{diphenyl-2},5-\text{dihydropyrrol-1-yl})hexyl]-
3-(pyridin-3-yl)acrylamide;
N-[4-(2,5]dioxo-3,4-diphenyl-2,5-dihydropyrrol-1-yl)butyl]-
3-(pyridih-3-yl)propionamide;
N-[4-(1,3]-dioxo-1,3-dihydroisoindol-2-yl) butyl]-3-(pyridin-3-yl)-
acrylamide;
N-[4-(1,\beta-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)butyl]-
3-(1-oxopyridin-3-yl)acrylamide;
N-[6-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)hexyl]-
3-(pyridin-3-yl)acrylamide;
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N-[2-(1,3-dioxo-1H,3H-benzo[de]isoquinolin-2-yl)ethyl]-
 3-(pyridin-3-yl)acrylamide;
N-[4-(1,3-dioxo-1H,3H/benzo[de]isoquinolin-2-yl)butyl]-
 3-(pyridin-3-yl)acrylamide;
N-[8,8-bis(4-fluorophenyl)octyl]-3-(pyridin-3-yl)acrylamide
hydrochloride;
N-[6-(3,3-diphenylureido)hexyl]-3-(pyridin-3-yl)acrylamide;
N-[4-(1-phenyl-1,2/4,5-tetrahydrobenzo[d]azepin-3-yl)butyl]-
3-(pyridin-3-yl)adrylamide;
N-(8,8-diphenyloctyl)-3-(pyridin-3-yl)acrylamide;
N-(8-hydroxy-8,8-diphenyloctyl)-3-(pyridin-3-yl)acrylamide;
N-[4-(3,3-diphen \precise{plane}] -3-(pyridin-3-yl) acrylamide;
N-[4-(1H,3H-benz]o[de]isoquinolin-2-yl)butyl]-3-(pyridin-3-yl)-
acrylamide;
N-[6-(10,11-dih/ydrodibenzo[b,f]azepin-5-ylcarbonylamino)hexyl]-
 3-(pyridin-3-y1)acrylamide;
 \mathcal{S}-(pyridin-3-y\mathbb{L})-N-[6-tosylaminohexyl]acrylamide;
N-[4-(1,1-dio/o-1-thia-2-azaacenaphthylen-2-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1-yl)butyl]-3-(pyridin-1
 3-yl)acrylamide;
 N-(6-hydroxy-6,6-diphenylhexyl)-3-(pyridin-3-yl)acrylamide;
N-(6,6-dipher/ylhex-5-enyl)-3-(pyridin-3-yl)acrylamide;
N-[4-(4,5-diphenylimidazol-1-yl)butyl)-3-(pyridin-3-yl)-
 acrylamide;
N-[4-(trans-2-phenylcyclopropylcarbonylamino)butyl]-
 3-(pyridin-3-yl)acrylamide;
 N-(5-hydrox y-5, 5-diphenylpentyl)-3-(pyridin-3-yl)acrylamide;
 N-(7-phenylheptyl)-3-(pyridin-3-yl)acrylamide;
 N-(4-diphenylacetylaminobutyl)-3-(pyridin-3-yl)acrylamide;
 N-[4-(benz)]ydrylamino)butyl]-3-(pyridin-3-yl)acrylamide; and
 N-(4-\{[2-(\precipent)] = (4-\{[2-(\precipent)] = (4-\{[2-(\precipent
  3-(pyridin+3-yl)acrylamide.
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administration of a further cancerostatic or immunosuppressive agent that is not a compound of formula I.

41. A pharmaceutical composition comprising:

(a) at least one compound selected from the group consisting of compounds of formula I:

$$\begin{array}{c|c}
R^{3(i)} & R^{4(i)} \\
R^{2(i)} & N & D^{(i)} \\
R^{1(i)} & N & O
\end{array}$$
(I)

where:

each of $R^{1(i)}$, $R^{2(i)}$, $R^{3(i)}$, and $R^{4(i)}$ are independently selected from the group consisting of halogen, hydroxy, trifluoromethyl, cyano, aliphatic hydrocarbyl residue optionally substituted with one or more functional groups and optionally interrupted by one or more heteroatoms, and aromatic hydrocarbyl residue; or $R^{1(i)}$ and $R^{2(i)}$ together form a bridge

k is 0 or 1;

 $A^{(i)}$ and $D^{(i)}$ are independently a saturated or unsaturated optionally substituted aliphatic hydrocarbyl residue, optionally interrupted by a heteroatom or a functional group;

E is a bond or is a heterocyclic residue having one or two ring nitrogen atoms or one ring nitrogen atom and one ring oxygen atom, linked to $D^{(i)}$ and G through a ring nitrogen atom and a ring carbon atom or through two ring nitrogen atoms; and

G is selected from the group consisting of hydrogen, an aliphatic or araliphatic residue, an unsaturated or aromatic monocyclic or polycyclic carbocyclic residue, a saturated, unsaturated, or aromatic monocyclic or polycyclic heterocyclic residue, bonded directly or through a functional group derived from a carbon, nitrogen, oxygen, sulfur, or phosphorus atom,

and the stereoisomers or racemic or non-racemic mixtures of stereoisomers thereof,

and the tautomers thereof when G is a heterocyclic aromatic ring or an aromatic ring substituted by a hydroxy, mercapto, or amino group,

and the pharmacologically acceptable acid addition salts thereof;

(b) at least one compound selected from the group consisting of compounds of formulae II, IIa, IIb, III, IIIa, IIIb, IIIc, IV, IVa, IVb, V, Va, and Vb:

$$\begin{bmatrix} R^{22} & R^{23} & \\ R^{21} & R^{26} & \\ R^{24} & R^{26} & \\ R^{24} & R^{26} & \\ R^{24} & R^{26} & \\ R^{25} & R^{26} & \\ R^{26} & R^{27} & \\ R^{27} & R^{27} & \\ R^$$

where:

a is an integer of 1 through 6; b is an integer of 1 through 2;

X is selected from the group consisting of fluoride, chloride, bromide, iodide, hydrogensulfate, mesylate, trifluoromethanesulfonate, tosylate, tetrafluoroborate, dihydrogenphosphate, and acetate;

R²¹ is selected from the group consisting of hydrogen, halogen, cyano, alkyl, trifluoromethyl, hydroxyalkyl, hydroxy, alkoxy, alkanoyloxy, alkylthio, aminoalkyl, amino, alkylamino, dialkylamino, formyl, alkoxycarbonyl, aminocarbonyl, alkylaminocarbonyl, and carboxy;

R²² is selected from the group consisting of hydrogen, halogen, alkyl, trifluoromethyl, hydroxyalkyl, hydroxy, alkoxy, alkanoyloxy, aminoalkyl, amino, alkoxycarbonyl, aminocarbonyl, and carboxy;

 \mathbb{R}^{23} is selected from the group consisting of hydrogen, alkyl, and hydroxyalkyl;

 R^{24} is selected from the group consisting of alkyl, alkenyl, hydroxyalkyl, alkoxyalkyl, and aralkyl;

 \mbox{R}^{25} is such that the alcohol $\mbox{R}^{25}(\mbox{OH})_a$ is selected from ;

 R^{26} is selected from the group consisting of hydrogen, alkyl, hydroxyalkyl, alkoxyalkyl, aminoalkyl, dialkylaminoalkyl, and carboxymethyl;

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